BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

YELAHANKA ZONE

Name of work: Improvements to drains from 15th cross in Jakkur Layout and Construction of rainwater units & Desilting of Drains in ward no.07, Byatarayanapura

Estimate cost:-48.00 lakhs

Name of Work:- Improvements to drains from 15th cross in jakkur layout & Construction of rainwater units & Desilting of drains in ward No.07 Byatarayanapura
Estimated Cost:- 48.00 akhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	Removing & refixing stone slabs of drains & pointing in C.M. Pg No.27.Item No.5.33)								
	Desilting of drains		2	2443.00	0.90		4397.40		
					TOTAL		**4397.40**	111.30	**489431.00**
	Basic Rate:	SQM	**105.00**						
	Area Weightage @ 6%		6.30						
	Total		**111.30**						
2	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	15th Cross		2	220.00	0.95	1.00	418.00		
	Rain water units		15	(3.14*1.5*1.5)/4		2.00	52.99		
	Desilting of drains		2	2443.00	0.60	0.60	1758.96		
					TOTAL		**2229.95**	137.80	**307287.00**
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						
3	KSRB M2100-10: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration inlcuding curing for 14 days including cost of all materials labour, HOM curing, form works, scaffolding and centering complete as per specification . (Pg.No.222, It.27.18)								
	RCC DRAIN-BOTTOM								
	15th Cross		2.00	220.00	0.95	0.15	62.70		
					TOTAL		**62.70**	5421.90	**339954.00**
	Basic Rate:	cum	5115.00						
	Area Weightage @ 6%		306.90						
	Total		5421.90						

4	SRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.460 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 14, Item NO. 4.11)								
	Bottom								
	15th Cross		2.00	220.00	0.75	0.15	49.50		
	Side Wall								
	15th Cross	**2x2**	4.00	220.00	0.15	0.60	79.20		
							128.70	5998.54	**772013.00**
	Basic Rate:	cum	5659.00						
	Area Weightage @		339.54						
	Total		5998.54						
5	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.18, Item No.4.46.2)								
	Reinforcement for side wall						128.70		
			At 55 Kg % per cum				**7.08**	75223.96	**532473.00**
	Basic Rate:	Tonne	70966.00						
	Area Weightage @ 6%		4257.96						
	Total		75223.96						
6	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	SIDE WALL								
	15th Cross	2x4	8	220.00		0.60	1056.00		
							1056.00	483.36	**510429.00**
	Basic Rate:	Sqm	456.00						
	Area Weightage @ 6%		27.36						
	Total		483.36						

7	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)								
	DETA RATE	**Sqm**							
	Covering Slab								
	15th Cross		735		0.60	0.90	396.90		
							396.90	2100.00	**833490.00**
8	KSRRB M2900-2.1. Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 1000,2300 Page No. 255, Item No. 34.7.8, PWD SR 2018-19								
			15	3.00	--	--	45.00		
					TOTAL		**45.00**	5976.28	**268932.60**
	Basic Rate:	mtr	5638.00						
	Area Weightage @ 6%		338.28						
	Total		5976.28						
9	Providing 100mm and down size nominal size. (Pg No.I.Item No.23)								
	For Pit		15	0.28		1.00	4.24		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**4.24**	987.62	**4187.51**
10	Providing 40mm and down size nominal size (Pg No.II.Item No.25)								
	For Pit		15	0.28		0.40	1.70		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**1.70**	1091.43	**1855.43**
11	Providing 20mm and down size nominal size (Pg No.II.Item No.28)								
	For Pit		15	0.28		0.40	1.70		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**1.70**	1091.43	**1855.43**
12	Providing Fine aggrgate 2.36mm nominal size (Pg No.II.Item No.32)								
	For Pit		15	0.28		0.30	1.27		
	(3.14x0.6*0.6)/4	Cum			**TOTAL**		**1.27**	1054.29	**1338.95**
13	Providing and fixing MS Grating 260x260 mm(Page No.1X, Sl No.234, code No.0771)								
			120				120.00		
					TOTAL		**120.00**	89.84	**10780.20**
	Basic Rate:	Nos	84.75						
	Area Weightage @ 6%		5.09						
	Total		89.84						

14	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No. 17.1)								
	Basic Rate	cum	**57.00**				2229.95	94.34	**210374.00**
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX1		**32.00**						
	Total		**89.00**						
	Add Area Weightage6%		**5.34**						
			94.34						
15						**Sub Total**			**4284401.12**
16				**Add 12% GST charges**					**514128.13**
17				**Miscelleneous charges**					**1470.75**
18						**Total**			**4800000.00**

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst Engineer
Ward no.7

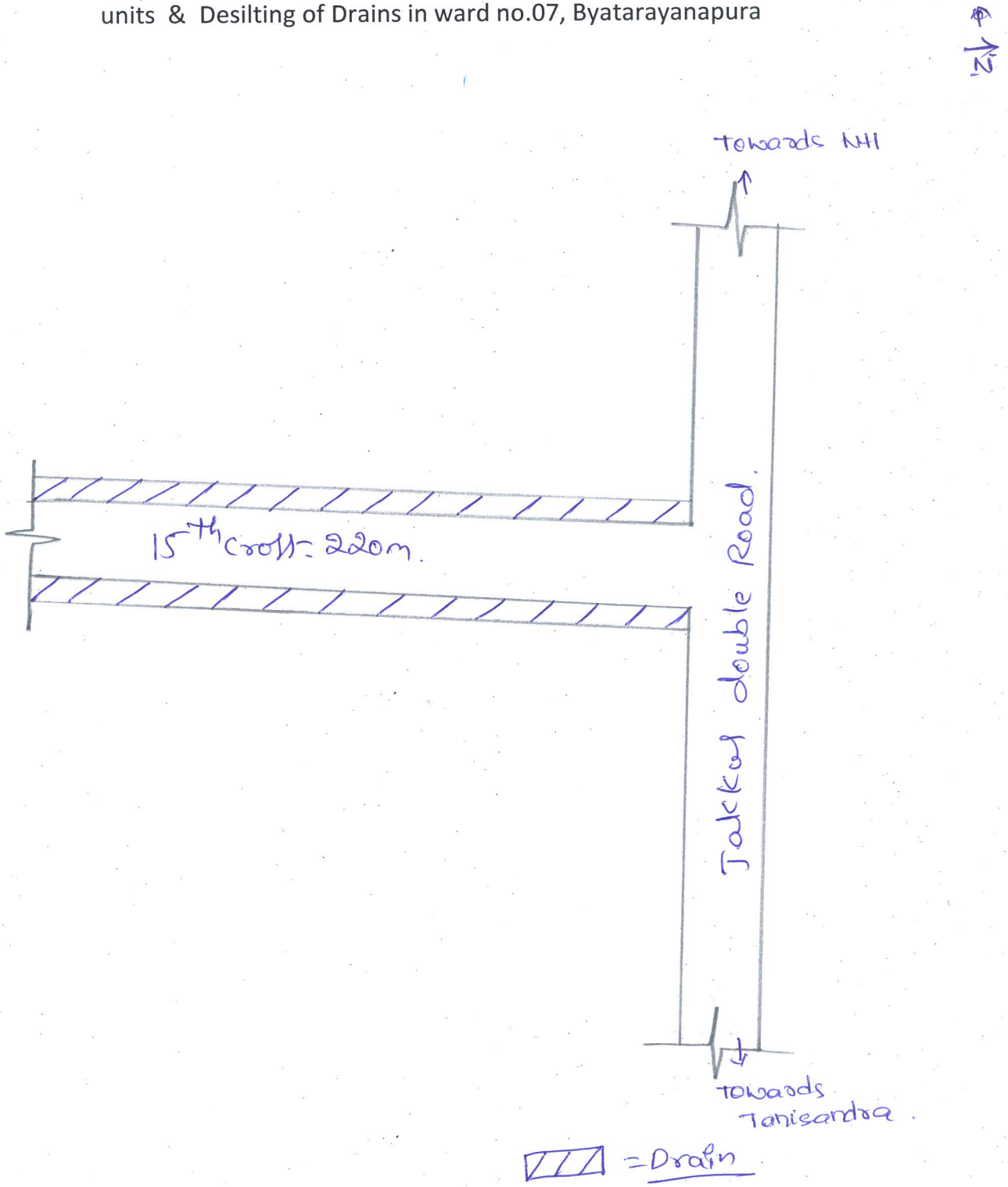
Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

ADMINISTRATIVE APPROVAL
Accorded For Rs. 48.00 Lakhs
Head of A/c. P.3602
Div. Ref. No. EE/BTP/AA/107/19-20 Date 25/02/20
AE
EE(BTP)

Technical Sanction
Accorded For Rs 48.00 Lakhs only
Head of A/C P3602
CER NO : 300 Dt: 27/02/2020
CE (YUK)

Name of work: Improvements to drains from 15th cross in Jakkur Layout and Construction of rainwater units & Desilting of Drains in ward no.07, Byatarayanapura



Asst Elg. N.D
AE(WT)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092